

PAGE 1 BOOK INFORMATION 807/106

TOMSK. Muchnoi-Isidorov's Institute retains 1 copybook

TOMSK, tom 11 (Transactions of the Tomsk Scientific Research Institute of Virology and Serums, vol. 11) Tomsk, 1947-1950 Tomsk Univ.-te, 1950. 327 p. 1,700 copies printed.

Editorial Board: B.O. Trifanovskiy (Dept. Ed.); Director of the Tomsk Scientific Research Institute of Virology and Serums; S.V. Karpov (Dept. Ed.); Professor; Dr. Z. Krasnaya (Secretary); M.A. Savchenko; and V.M. Piter (Deceased); Tomsk, Md. A.V. Olsentsev.

PURPOSE: This collection of articles is intended for biologists, physicians, and medical personnel.

CONTENTS: The collection contains 18 papers on problems of epidemiology and microbiology and 35 reports on the theory and practice of immunology. To assist interpretation of names of organizations in the table of contents the following abbreviations will be abbreviated: Tomsk muchnoi-isidorov's Institute of Virology and Serums (Tomsk Institute), "muchnoi-isidorov's Institute of Virology and Serums (Tomsk Institute)", "muchnoi-isidorov's Institute of Microbiology and Parasitology (Tomsk Institute)", Tomsk Medical Institute, Tomsk Institute of Veterinary Medicine, Tomsk Entomological Institute, Tomsk Department of Microbiology, and N.I. Logatchev, and N.I. Logatchev (Tomsk Institute).

1. "Popov, V.M., I.N. Logatchev, and N.I. Logatchev (Tomsk Institute). Research Data on Epidemiologic Characteristics in Tomsk Oblast,"
2. "Popov, V.M., I.N. Logatchev, and N.I. Logatchev (Tomsk Institute). Data Pertaining to Diseases of Tick Hemoplasma Viruses in the Tomsk Oblast of Russia,"
3. "Logatchev, N.I. (Tomsk Institute). The Role of Small Mammals in the Formation of Natural Tick of Infection in Western Siberia,"
4. "Logatchev, N.I. (Tomsk Institute). Tomsk Medical Institute, Epidemiological, Entomological and Preventive Work of Tick Endoparasite in the Tomsk Oblast During the 1957 Season,"
5. "Popov, V.M., I.N. Logatchev, and N.I. Logatchev. Data Pertaining to the Characteristics of the Outbreaks of Tick Endoparasites,"
6. "Logatchev, N.I. (Tomsk Institute). The Role of Small Mammals in the Formation of Natural Tick of Infection in Western Siberia,"
7. "Logatchev, N.I., and A.M. Tsvyra (Tomsk Institute). Tomsk Medical Institute, Epidemiological and Preventive Work of Tick Endoparasite in the Tomsk Oblast During the 1957 Season,"
8. "Popov, V.M., I.N. Logatchev, and N.I. Logatchev. Data Pertaining to the Characteristics of the Outbreaks of Tick Endoparasites,"
9. "Korshakova, V.M. (Tomsk Institute). Characteristics of Tick-borne Encephalitis in Tomsk Oblast. Statistical Analysis,"
10. "Korshakova, V.M. (Tomsk Institute). Characteristics of Tick-borne Encephalitis in Tomsk Oblast. Clinical Features of Infectious Disease,"
11. "Korshakova, V.M. (Tomsk Institute). Specific Properties of a Tick-borne Encephalitis Induced by Methyl Alcohol, for the Central Nervous System,"
12. "Korshakova, V.M. (Tomsk Institute). Specific Properties of a Tick-borne Encephalitis Induced by Methyl Alcohol, for the Central Nervous System,"
13. "Korshakova, V.M., and I.P. Sogolova (Tomsk Institute). Tomsk Medical Institute. Biological Characteristics of Encephalitis Induced in Tomsk Oblast,"
14. "Korshakova, V.M., and I.P. Sogolova (Tomsk Institute). Tomsk Medical Institute. Biological Characteristics of Encephalitis Induced in Tomsk Oblast,"
15. "Korshakova, V.M. (Tomsk Institute). Analysis of Local Data on Epidemiology and Prevention Work,"
16. "Korshakova, V.M. (Tomsk Institute). Analysis of Local Data on Epidemiology and Prevention Work,"
17. "Korshakova, V.M. (Tomsk Institute). Study of the Epidemiology of Tick-borne Encephalitis in Tomsk Oblast,"
18. "Korshakova, V.M. (Tomsk Institute). Study of the Epidemiology of Tick-borne Encephalitis in Tomsk Oblast,"
19. "Korshakova, V.M. (Tomsk Institute). Immunological Characteristics of Polyvalent and Mono-specific Antibiotic Vaccine-Multivaccine,"
20. "Korshakova, V.M. (Tomsk Institute). Antibiotic Properties of Associated Bile," and Computer Facilities,"

YASTREBOV, A.F.

Analysis of local data on epidemic and sporadic poliomyelitis.
(MIRA 16:2)
Trudy TomNIIVS 11:99-106 '60.

1. Tomskiy nauchno-issledovatel'skiy institut vaktein i syvorotok.
(SIBERIA, WESTERN-POLIOMYELITIS)

ZEMLYAKOVA, Z.M.; YASTREBOV, A.F.

Clinical and epidemiological observations of the poliomyelitis outbreak in Kozhavnikovoy District, Tomsk Province, in 1957.
(MIRA 17:7)
Trudy TomNIIVS 14:49-53 '63.

1. Kafedra gospital'noy pediatrii Tomskogo meditsinskogo
instituta i Tomskiy nauchno-issledovatel'skiy institut
vaktsin i syvorotok.

YASTREBOV, A.F.; MASTENITSA, M.A.; KOLDOMOV, M.V.; KOROLENKO, G.A.
RAGOZINA, T.T.; VILENCHIK, R.Yu.

Lung diseases of adenoviral nature in Pavlovsk District,
Altai Territory. Trudy TomNIIVS 14:60-64 '63. (MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i
syvorotok i Altayskiy krayevoy otdel zdravookhraneniya.

REFERENCE NO: A1507021

S7016/65/006/003/CIA-RDP86-0142

AUTHOR: Mefod'yev, V. V.; Yastrebov, A. F.

26

TITLE: Role of farm animals in free formation of Leptospira infection in man

P

SOURCE: Zhurnal mikrobiologii, epidemiologii i imunobiologii, no. 3, 1965, 142

TOPIC TAGS: animal, cow, pig, man, Leptospira, leptospirosis, animal vector study, epidemiology, serologic test, preventive medicine

ABSTRACT: During 1961-1963 at a large sovkhoz in Tyumenskaya oblast 87 cases of leptospirosis were recorded with the highest incidence among children ages 0-15 yrs. All of these children swam in a nearby river which served as a watering place for cattle and was also contaminated by manure from local pig farms. Leptospirosis in the cattle was first noted in 1961 and reached its peak in May 1962. In serologic tests specific antibodies to 11 Leptospira serotypes were found in 109 (70.3%) of the 155 cattle serums studied. The prevalent serologic types both in human and cattle serum were

Card 1/2

L 43945-65

ACCESSION NR: AP5008021

Leptospira pomona, L. nadmodidis, and L. icterohaemorrhagiae AB, and the same types prevailed in the pig serums. It was established that farm animals play a direct causative role in the focus formation of Leptospira infection in man. Thus, a single unified medical and veterinary program is of great importance, particularly vaccination against leptospiral infection, strict animal sanitation in populated areas, and preventing leptospiral infection among agricultural workers. Orig. art. nos: None.

ASSOCIATION: Tyumen'skiy filial Omskogo instituta prirodnoochagovykh infektsiy (Tyumen Branch of the Omsk Institute of Natural Foci of Infections)

SUBMITTED: 09Sep64 ENCL: 00
NR REF Sov: 000 OTHER: 000

SUB CODE: LS

Card 2/2

L 17126-65 EPF(c)/EPR/EWG(j)/EWG(v)/EWA(h)/EWP(j)/EWT(m)/T/EWA(1) Pe-4/
Pe-5/Pr-4/Ps-4/Peb ASD(m)-3/ASD(f)-2 RM/WW

ACCESSION NR: AP5000657

S/0181/64/006/012/3601/3607

AUTHOR: Zhurkov, S. N.; Slutsker, A. I.; Yastrebinskiy, A. A.

TITLE: Connection between the elastic deformation of oriented polymers and their structure

SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3601-3607

TOPIC TAGS: polymer, oriented polymer, elastic polymer, elastic property, fibrillar structure

ABSTRACT: This is an elaboration of a preliminary report by the authors (DAN SSSR v. 153, 303, 1963). In order to disclose the details of fibrillary structure which make oriented polymers elastic, the authors studied the structural changes occurring in several oriented crystallizing polymers under elastic deformation, using x-ray diffraction methods at large and small angles. The tests were made on fibers and films made of poly-caprolactame (capron), polypropylene, polyethylene, polyethyleneterephthalate (lavan), and polyvinyl alcohol. Small-angle measurements were made with a slit type installation

Card 1/2

L 17126-65

ACCESSION NR. AP5000657

with the scattered radiation registered with scintillators, as described by the authors earlier (PTE, No. 5, 89, 1959; FTT v. 4, 2534, 1962). X-ray diffraction at large angles was measured with the URS-50 I apparatus. The x-ray measurements were made with K radiation of copper ($\lambda = 1.54 \text{ \AA}$). It was found that the deformation of bundles of fibers was not due to slipping of the fibers relative to one another, but to the deformation inside the fibers themselves. The moduli of elasticity of the amorphous regions of the polymers were calculated and were found to be much lower than the moduli of elasticity of the crystal portions, up to nearly-breaking loads. The reason for this is apparently the great inhomogeneity of the distribution of the stresses over the chain molecules resulting from their disordered arrangement in the amorphous regions. It is therefore concluded that the deformation of the polymers is concentrated in the amorphous regions, which should be further investigated. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR Leningrad (Physico-technical Institute AN SSSR)

SUBMITTED: 26Jun64

ENCL: 00

SUB CODE: OC, MT

NR REF SOV: 006

OTHER: 012

Card 2/2

RZHEVSKIY, Vladimir Vasil'yevich, prof., doktor tekhn. nauk; YASTREBOV, A.I.,
otvetstvennyy red.; ZVORYKINA, L.N., red. izd-va; CHANTSIVA, G.M.,
tekhn. red.

[Open-pit construction; mining engineering operations] Stroitel'-
stvo kar'erov; gornostroitel'nye raboty. Moskva, Ugletekhizdat,
(MIRA 11:10)
1958. 193 p.

(Strip mining)

YASTREBOV, A.I., RAZMYSLOV, Yu.S.; VINITSKIY, K.Ye.

"Open-cut mining operations" by N.A. Kuleshov. Reviewed by A.I. Yastrebov,
Yu.S. Razmyslov, K.E. Vinitskii. Ugol' 33 no.11:47 N '58. (MIRA 11:11)

(Strip mining) (Kuleshov, N.A.)

MEL'NIKOV, N.V.; VINITSKIY, K.Ye., kand.tekhn.nauk; POTAPOV, M.G.,
kand.tekhn.nauk; USKOV, A.A., red.; POKROVSKIY, M.A., red.;
RZHEVSKIY, V.V., red.; SOKOLOVSKIY, M.M., red.; DAVIDENKO,
Yu.K., red.; YASTREBOV, A.I., red.; KAUFMAN, A.M., red.izd-va;
LOMILINA, L.N., tekhn.red.

[Prospects for the use of rotating excavators in U.S.S.R.
open-pit mines] Perspektivy primeneniia rotornykh ekskavatorov
na otkrytykh razrabotkakh SSSR. Pod red. N.V.Mel'nikova.
Moskva, Ugletekhizdat, 1959. 175 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet.
(Excavating machinery) (Strip mining)

YASTREBOV, A.I.

ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn.
nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV,
V.G., inzh.; VINITSKIY, K.Ye., kand.tekhn.nauk; VLASOV, V.M..
inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.;
GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk
[deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand.
tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn.
nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk;
KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand.
tekhn.nauk; MAZUROK, S.Y., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G.,
inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.;
POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.;
RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand.
tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.;
SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH,
Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.;
TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand.tekhn.nauk; FURMANOV,
B.M., inzh.; SHATALEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor
tekhn.nauk; TERPIGOREV, A.M., glavnnyy red. [deceased];

(Continued on next card)

ALATORTSEV, S.A.---(continued) Card 2.

KIT, I.K., zamestritel' glavnogo red.; SHESKO, Ye.F., zamestritel'
otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.N., red.;
DIONIS'EV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.;
SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P.,
kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.;
LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH,
A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLA-
VUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYMOV-
SKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.;
SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red.
izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A.,
tekhn.red.

(Continued on next card)

ALATORTSEV, S.A.----(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chlany glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkollegija toma; N.V.Mel'nikov i dr. 1960. 625 p.

(MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).
(Coal mines and mining) (Strip mining)

YASTREBOV, A.I. & VINITSKIY, K.Ye.

Efficient parameters of the new high-capacity single-bucket
excavators. Ugol' 36 no.12:32-35 D '61. (MIRA 14:12)
(Excavating machinery)

KUZNETSOV, K.K., prof.; YASTREBOV, A.I., inzh.; PODERNI, Yu.S., inzh.; KLEPIKOV, L.N., red.; TRET'YAKOV, K.M., inzh.; MKRTYCHIAN, A.A., inzh.; SALIKOV, I.A., inzh.; FISH, Ye.A., inzh.; MASTEROV, A.K., inzh.; MEL'NIKOV, N.V., akademik, red.; BYKHOVSKAYA, S.N., red. izd-va; OVSEYENKO, V.G., tekhn. red.; SABITOV, A., tekhn. red.

[Standard plans for mine development and transportation systems]
Tipovye proekty sistem razrabotki i transporta na kar'erakh. Pod obshchey red. N.V.Mel'nikova. Moskva, Gosgortekhizdat, Vol.2.[The transportation system in mine; the justification and calculation of standard layouts, elements, and technical and economic indices] Transportnaya sistema razrabotki; obosnovaniia i raschety tipovykh skhem, elementov i tekhniko-ekonomicheskikh pokazatelei.
1962. 462 p.

(MIRA 16:2)

1. Moscow. Vsesoyuznyy tsentral'nyy proyektnyy institut po projektirovaniyu shakhtnogo stroitel'stva kamennougol'noy promyshlennosti.

(Mine haulage) (Strip mining)

YASTREBOV, A.I., inzh.

Plow design as a factor in automatic tractor guidance. Trakt.
i sel'khozmash. 32 no.9:31-32 S '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii
sel'skogo khozyaystva.
(Tractors) (Plows)

MURAV'YEV, B.V.; YASTREBOV, A.I., inzh.

Special problems in constructing industrial enterprises in the far North. Prom. stroi. 37 no. 7:28-33 Jl '59.

(MIRA 12:10)
(Russia, Northern--Factories--Design and construction).

MURAV'YEV, B.V., kand.arkhitektury; RIMSKAYA-KORSAKOVA, T.V., kand.
arkhitektury; YASTREBOV, A.L., inzhener

Planning and building populated areas in the Far North. Izv.
ASIA no. 3:85-94 '60. (MIRA 13:12)
(Russia, Northern--City planning)

YEVTEKHIYEV, Anatoliy Leonidovich, inzh.; YASTREBOV, A.L., inzh.,
nauchnyy red.; REYZ, M.B., red. izd-va; CHERKASSKAYA, F.T.,
tekhn. red.

[Preparatory operations in construction under the conditions of the
Far North; from the experience of Noril'sk] Raboty nulevogo tsikla
na stroitel'stve v usloviakh Krainego Severa; iz opyta Noril'ska.
Leningrad, Gosstroizdat, 1962. 105 p. (MIRA 15:6)
(Russia, Northern—Building)

YASTREBOV, A.L., inzh.

Deformations in embankments for construction on permafrost soils.
Izv. ASIA 4 no.1:76-89 '62. (MIRA 15:11)
(Embankments) (Frozen ground)

POMAZKOVA, Ye.N., kand.arkhitektury; YASTREBOV, A.L., inzh.

Plan for an enterprise of the aluminum industry of the future. Prom.
stroi. 40 no.7:24-29 '62. (MIRA 15:7)
(Aluminum industry) (Automation)

YASTREBOV, A.P.

Mechanism of the effect of cobalt on erythropoiesis. Pat.
fizichl. i eksp. terap. 9 no.3:34-37 My-Je '65.

(MIRA 18:9)

1. Kafedra patologicheskoy fiziologii (zav.- prof. Ya.G.
Uzhanskiy) Sverdlovskogo meditsinskogo instituta.

DYRO, P.R.; KAMNEVA, Z.P.; PUSHENKO, K.D.; SYTNIK, Z.D.;
YASTREBOV, A.S.

Removal of tomato product deposits from the heating surface
of heat exchangers. Kons. i ov. prom. 18 no.12:9-10 D '63.
(MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.

YASTREBOV, A.V.
25(5)

PHASE I BOOK EXPLOITATION

SOV/2100

Musyakov, Leonid Abramovich, Girsh Solomonovich Vil'ner, and Anatoliy
Vasil'yevich Yastrebov

Avtomatizatsiya kak sredstvo ozdorovleniya usloviy truda (Improved
Working Conditions Through Automation) [Moscow] Profizdat, 1958.
71 p. 5,000 copies printed.

Ed.: I.S. Denisova; Tech. Ed.: A.A. Golichenkova.

PURPOSE: This booklet is intended for personnel responsible for
safety engineering.

COVERAGE: The booklet describes simple mechanization and automation
methods, that if used by individual plants may significantly
reduce working hazards in casting, cutting, and forming metals and
processing chemicals. Examples showing instrumentation of machine
tools and other equipment with various feeders, loaders, and other
safety devices are included. No personalities are mentioned.

Card 1/2

Improved Working Conditions Through Automation

SOV/2100

There are no references.

TABLE OF CONTENTS:

Introduction

3

Automatization of Hazardous and Labor Consuming Jobs

8

Automatization of Dangerous Jobs

31

Automatization of Transport Operations

55

AVAILABLE: Library of Congress (TJ213.M83)

Card 2/2

JG/bg
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MAVDRIKOV, F.I., inzh.; NOVOGRENKO, N.M., inzh.; BONDARENKO, Ye.M., inzh.;
YASTREBOV, A.V., inzh.; SMIRNOV, A.I., inzh.; DOROFEEV, B.G.,
inzh.

New designs of air cooled resistances. Vest. elektroprom.
33 no.5:24-28 My '62. (MIRA 15:5)
(Novocherkassk--Electric equipment industry)
(Electric railroads--Electric equipment)
(Electric resistors)

YASTREBOV, B.V.; PROREKHIN, V.P.

Basic results of using a combination of methods in searching
for underground waters for watering pastures in the Syrian
Desert. Geofiz.razved. no.10:48-65 '62. (MIRA 15:12)
(Syrian Desert—Water, Underground)
(Electric Prospecting)

YASTREBOV, F. S.

YASTREBOV, F. S.: "The effect of irrigation on the growth, development, and harvest yield of winter wheat in Zaporozhe Oblast." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner Agricultural Inst imeni V. V. Dokuchayev. Khar'kov 1956. (Dissertation) for the Degree of Candidate in Agricultural Sciences)

Source: Knizhnaya letopis' No. 28 1956 Moscow

YASTREBOV, F.V., inzh.; SMIRNOV, P.Ya.

Welding brass with the LKBO 62-02-004-05 self-fluxing wire. Svar.proizv.
no.10:35-36 0 '64. (MIRA 18:1)

1. Trest "Zaporozhmetallurgmontazh".

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962230006-2

YASTREBOV, G.

Leading airplanes. IUn.tekh. 2 no.11:18-20 N '57. (MIRE 10:11)
(Airplanes)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962230006-2"

YASTREBOV, G. [REDACTED]

AUTHOR: Yastrebov, G.

25-58-3-28/41

TITLE: Leather Substitutes (Soperniki kozhi)

VOL. 26

PERIODICAL: Nauka i Zhizn', 1958, Nr 3, p 65-67 (USSR)

ABSTRACT: The author describes in detail the advantages of using artificial leather and also mentions the names of scientists who to a large extent helped to develop this industrial branch: Professor A.D. Zayonchkovskiy; B.A. Safray; V.N. Feoktistov, and I.V. Plotnikov, Candidates of Technical Sciences. There are five photographs.

AVAILABLE: Library of Congress

Card 1/1 1. Leather-Synthetic-Applications

AUTHOR:

Yastrebov, G.

SOV/25-58-11-15/44

TITLE:

The Soviet Phytotron (Sovetskiy fitotron)

PERIODICAL:

Nauka i zhizn', 1958, Nr 11, pp 33-35 (USSR)

ABSTRACT:

A new center of Soviet biological sciences is the station for artificial climate of the Institut fiziologii rasteniy imeni K.A. Timiryazeva Akademii nauk SSSR (Institute of the Physiology of Plants imeni K.A. Timiryazev of the USSR Academy of Sciences), established a few years ago. This station for artificial climate or phytotron, as it is called, consists of a number of laboratories which provide facilities for the creation of any climatic conditions. The author gives a detailed description of his visit to the Corresponding Member of the USSR Academy of Sciences, I.I. Tumanov, Head of the Institute, and mentions the research done in this field of the phytotron by the following scientists: M.K. Bardinskaya, Academician L.A. Kursanov, P.A. Genkel', Professor, K.A. Badanova, Scientific Co-Worker and Professor Z.O. Zhurbitskiy. There are 4 photos.

Card 1/1

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CIA-RDP86-00513R001962230006-2

YASTREBOV, G.

Man steps into the cosmos. Voen.znan. 34 no.10:8-9 O '58.
(MIRA 11:12)

(Interplanetary voyages)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962230006-2"

YASTREBOV, G.

Man on the threshold of outer space. Voen.znan. 36 no.7:
7-8 Jl '60. (MIRA 13:7)
(Astronautics)

OBNORSKIY, V.; LITYAGIN, A.; YASTREBOV, G., slesar¹ (Chirchik); MANOYLENKO, L.

This is the way we are living. Izobr.i rats. no.5 (201):28-29
'63. (MIRA 16:7)

1. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i
ratsionalizatorov Vsesoyuznogo gosudarstvennogo proyektnogo
instituta ströitel'stva elektrostantsiy (for Obnorskiy). 2. Starshiy
inzh. Tul'skogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov (for Lityagin). 3. Chlen Soyuza zhurnalistov
SSR for Yastrebov). 4. Predsedatel' Soveta Vsesoyuznogo obshchestva
izobretateley i ratsionalizatorov Rubezhanskogo khimicheskogo zavoda
(for Manoylenko).

(Technological innovations)

YASTREBOV, G.

From the practice of navigation. Mor. flot 25 no.11:23-24
(MIRA 18:11)
N '65.

1. Kapitan morskogo tankera "Lokbatan" Kaliningradskoy
bazy refrizeratornogo flota.

SHAROVA, M.A., kand. med. nauk; TIMOKHINA, Ye. A., kand. med. nauk; KAYSINA, O.V.,
kand. med. nauk; YASTREBOV, G.G. mladshiy nauchnyy sotrudnik

Hygienic evaluation of the duration of agricultural work for 5th-
7th grade students during the summer vacation. Gig. i san. 24 no.5:
40-45 My '59. (MIRA 12:7)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i
gigiyeny imeni F. F. Erismana Ministerstva zdravookhraneniya RSFSR.
(AGRICULTURE,

duration of summer employment of school child. (Rus))
(SCHOOLS,

hyg. aspects & duration of agricultural employment
of school child. (Rus))

YASTREBOV, G.G.

Work clothes for students in the building professions.Uch.
zap. Mosk. nauch.-issl. inst. san. i gig. no.2:41-43 '59
(MIRA 16:11)

1. Moskovskiy nauchno-issledovatel'skiy institut sanitarii
i gigiyeny imeni F.F.Erismana.

*

YASTREBOV, G.I.; ATANAZHNICH, Ye.I.; IYELEV, V.K.

Starting and operating a unit for distilling fatty acids.
Nefteper. i neftekhim. no.6:27-31 '63 (MIRA 17:7)

1. Novokuybyshevskiy neftepererabatyvayushchiy zavod i Kuybyshevskiy nauchno-issledovatel'skiy institut neftyanoy promshlennosti.

VARSHAVER, Ye.M., inzhener; BERNADYUK, Z.A., inzhener; YASTREBOV, G.I.,
inzhener.

Two-step filtration in deparaffination plants. Neftianik 1
no.11:16-17 N '56. (MLRA 9:12)

1. TSekh deparafinizatsii Novokuybyshevskogo neftepererabaty-
vayushchego zavoda.
(Petroleum--Refining) (Paraffins)

S/065/61/000/004/004/011
E194/E284

AUTHORS: Gerasimenko, N. M., Yastrebov, G. I., Badyshova,
K. M., Gol'dshteyn, D. L., Pisarchik, A. N.,
Zhadanovskiy, N. B., Finelonov, V. P. and
Kartunov, G. S.

TITLE: Hydrofining of Lubricants

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 4,
pp. 27-31

TEXT: Lubricants produced at modern refineries running on
eastern high-sulphur crudes are finished with earth but the
lubricants obtained are not of satisfactory quality, particularly
in respect of colour, and the yield is low. Accordingly, VNII NP
and GrozNII have investigated catalytic refining of lubricants in
the presence of hydrogen (hydrofining) to replace earth treatment.
Various distillate and residual lubricating oils produced from
sulphurous crudes by phenol and furfural extraction were hydro-
fined under laboratory conditions. The work showed that hydro-
fining with aluminium-cobalt-molybdenum catalyst considerably
improved the colour, somewhat improved the viscosity index and

Card 1/5

S/065/61/000/004/004/011
E194/E284

Hydrofining of Lubricants

oxidation stability and reduced the coke number. There was some reduction in viscosity and increase in pour point. Depending upon the properties of the feed the output of hydrofined oil was 98-99.5%. The Novokuybyshevskiy neftepererabatyvayushchiy zavod (Novokuybyshevsk refinery), together with the Kuybyshev NII NP organized a plant trial on hydrofining of various de-waxed lubri-

The lubricating oils were hydrofined on a reconstructed plant for hydrofining of diesel fuel. Tests were made on two distillates, one a spindle and the other a machine oil, and one residual oil. The de-waxed feed passed to heat exchangers where it was heated by finished oil issuing from the reactor and was then finally heated to temperature in a furnace before passing to the reactor. Before entering the furnace the feed was mixed with hydrogen containing gas and was then passed to the top of columns loaded with aluminium-cobalt-molybdenum catalyst. On leaving the column the product passed through the heat exchangers, thence to a gas

Card 2/5

S/065/61/000/004/004/011
E194/E284

Hydrofining of Lubricants

separator and the finished product was vacuum stripped. The main characteristics of the catalyst are given. The oils produced were spindle oil, machine oil and residual oil with viscosity of 20.66 centistokes at 100°C. The results of hydrofining and of earth treatment are compared in Table 3. It will be seen that the hydrofined oils have much better colour, lower coke number, lower sulphur content, higher viscosity index but that there is some loss of viscosity and 1-2° higher pour point. Preliminary technical and economic calculations indicate that the capital costs of constructing hydrofining and earth treatment plant is about the same but with hydrofining running costs are about 32% less than with clay treatment. There are 1 figure and 3 tables.

ASSOCIATION: NK NPZ

Card 3/5

Hydrofining of Lubricants

S/065/61/000/004/004/011
E194/E284Table 3.

Spindle oil MC-20 IS-20	Machine oil MC-45 IS-45
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H	E	H	E
---	---	---	---

Kinematic viscosity centistokes:

at 50°C	17.20	17.50	39.70	40.20
---------	-------	-------	-------	-------

at 100°C	-	-	-	-
----------	---	---	---	---

Viscosity index

86.0	85	85	83
------	----	----	----

Sulphur content % weight

0.7	0.9	0.6	1.0
-----	-----	-----	-----

Coke No. % weight

-	-	0.07	0.10
---	---	------	------

Colour, procedure KN-51, glass

No. 4 mm with dilution	-	-	-
------------------------	---	---	---

50:50%	75	26	-	-
--------	----	----	---	---

15:85%	-	-	100	35
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(H - hydrofining: E - earth treatment)

Card 4/5

S/065/61/000/004/004/011
E194/E284

Hydrofining of Lubricants

Table 3

	Residual oil		Machine oil		Motor oil	
	CY (SU)	AC-9.5 (AS-9.5)	H	E	H	E
Kinematic viscosity centistokes:						
at 50°C	-	-	48.39	44.71	53.38	51.67
at 100°C	20.66	21.64	-	-	-	-
Viscosity index	88	85	86	84	87	85
Sulphur content % weight	0.7	1.0	0.63	1.00	0.65	1.0
Coke No. % weight	0.43	0.56	0.10	0.12	0.19	0.20
Colour, procedure KH-51(KN-51), glass No.4 mm with dilution						
50:50%	-	-	-	-	-	-
15:85%	50	20	73	30	61	21

(H - hydrofining: E - earth treatment)

Card 5/5

YASTREBOV, G., slesar'

The combine will be an enterprise of communist labor. Izobr. i
rats. no.11:2 N '61. (MIRA 14:11)

1. Chirchikskiy elektrokhimicheskiy kombinat, Chirchik,
UzbSSR.
(Chirchik—Electrochemistry, Industrial)

L 42173-66 EWT(m)/T DJ

ACC NR: AR6014532

(A)

SOURCE CODE: UR/0081/65/000/019/P018/P018

AUTHORS: Badyshkova, K. M.; Vipper, A. B.; Vorozhikhina, V. I.; Demisenko, K. K.;
Kreyn, S. E.; Pyatiletova, N. I.; Ryazanov, L. S.; Yastrebov, G. I.

31.

TITLE: Effect of the extent of refining¹¹ of the distillate and residual components B
of DS-14 oil from sulfurous petroleum upon their operational properties

SOURCE: Ref. zh. Khimiya, Abs. 19Pl29

REF SOURCE: Tr. Kuybyshevsk. n.-i. in-t naft. prom-sti, vyp. 25, 1964, 85-95

TOPIC TAGS: lubricating oil, petroleum refining, phenol / DS-14 lubricating oil,
MS-20 lubricating oil, DS-11 lubricating oil

ABSTRACT: Laboratory study and testing on the engine YaMZ-204 of five samples of DS-14 oil of Novokuybyshev NPZ (differing by the technology of their processing) have been performed. The study shows that the changes in the extent of phenolic refining of distillate and residual components (within the limits of 160—180 and 250—320% of phenol, respectively) have no effect on the detergency, antioxidative, and anti-wear properties of DS-14 oil containing effective additives. Economically, the most convenient method for producing DS-14 oil is to mix the residual and distillate components of Diesel oil, 60 and 40%, respectively, (i.e., components treated to a less extensive phenolic refining). This leads to lowering the price of DS-14 oil by 15% and to increasing its yield by 4%, as compared with the production of DS-14 oil by mixing oils MS-20 and DS-11. A. N. [Translation of abstract]

SUB CODE: 11/ .

Card 1/1

YASTREBOV, I.

USSR/Cultivated Plants + Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91601

Author : Yastrebov, I.

Inst :

Title : New Variety of Winter Wheat - Red Batkan.

Orig Pub : S. kh. Kirgizii, 1957, No 12, 23-24.

Abstract : Red Batkan winter wheat exceeded the local variety Eriethrosperrum 9 in productivity by an average of 10.2 centners/hectare in experiments on many collective farms in Issyk-Kul'skaya Oblast' in 1957. The variety is not affected by wheat mildew.

Card 1/1

ACC NR: AP6034629 (A) SOURCE CODE: UR/0107/66/000/008/0033/0035
AUTHOR: Yastrebov, I. (Engineer); Moiseyev, V. (Engineer)

ORG: none

TITLE: "Mukha" (fly) radio station. "Zaliv" (bay) radio receiver

SOURCE: Radio, no. 8, 1966, 33-35

TOPIC TAGS: radio communication, radio transmitter, radio receiver, mobile
radio / Mukha radio, Zaliv radio receiver

ABSTRACT: The development is reported of a new mobile, simplex, AM,
storage-battery (24 v) supplied radio station intended for glider-to-glider and
glider-to-ground communication. Two versions are manufactured: "Mukha-A"
and "Mukha-B"; the former has four and the latter one transmitter-receiver. A
principal connection diagram is shown; both electron tubes and transistors are

not
ted. " Orig.

Card 1/2

Card 2/2 APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R0019622300

YASTREBOV, M. [IAstrabau, M.]

Enviable lot. Rab.1 sial. 35 no.3:5 Mr '59.
(Vitebsk--Textile industry)

(MIRA 12:3)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962230006-2

AKOPOV, A.A.; YASTREBOV, M.F.

Simplify standard gusher fittings.
(Oil wells--Equipment and supplies) Neft.khoz. 33 no.5:48 My '55.
(MIRA 8:8)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962230006-2"

ALESHIN, S. N. I. YASTREBOV, M. I.

33274. Izmeneniye Potentsiala Kornya Profostkov Psheniiis V Zavisimosti Ot
Rn Sredy. Doklady Akad. Nauk SSSR, Novaya Seriya, T. LXIX, No. 1, 1949,
C. 85-88.--Bibliog: 5 NAZV.

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

STAROVEROV, I.G., otv. red.; YASTREBOV, M.M., zam. otv. red.;
VERKHODANOV, M.Kh., red.; GULISHAMZAROV, F.I., red.;
OSIPOV, V.S., red.; FINKEL'SHTEYN, S.M., red.;

[Album of equipment; condensate outlets] Al'bom oborudovaniia;
kondensatootvodchiki. Moskva, 1963. 33 p. (MIRA 16:12)

1. Moscow. Gosudarstvennyy proyektnyy institut Santekhproyekt.
2. Glavnyy inzhener Gosudarstvennogo proyektnogo instituta
Gosudarstvennogo tresta sanitarno-tehnicheskogo proyektirovaniya (for Staroverov).

(Water heaters)

STAROVEROV, I.G., otv. red.; YASTREBOV, M.M., zam. otv. red.;
VERKHODANOV, M.Kh., red.; GULISHAMBAROV, F.M., red.;
OSIPOV, I.G., red.; FINKEL'SHTEYN, S.M., red.

[Equipment album; air heaters and heating units] Al'bom
oborudovaniia; kalorifery i agregaty. Moskva, 1964. 96 p.

[Equipment album; unit air conditioners] Al'bom oborudovaniia;
mestnye konditsionery. Moskva, 1964. 105 p.

(MIRA 18:4)

1. Moscow. Gosudarstvennyy proyektnyy institut santekhproyekt.

CA

11 D

Variation of root potential of wheat sprouts in dependence on pH. S. N. Aleshin and M. T. Yastrebov (Timiryazev Agr. Akad., Moscow). *Doklady Akad. Nauk S.S.R.* 60, 85-8(1949).—The root potential of a wheat sprout which is 15 mv. at pH 0 (extrapolated) to 4, rapidly drops linearly to -10 mv. at pH 6.5, showing a slight rise to -7 mv. at pH 7.3. The phenomenon is discussed in light of diffusion and potential gradients of the system. The pH levels for measurements were established by acetate buffers.

G. M. Kosolapoff

ANSWERING YOUR QUESTIONS

15.11.2

USSR/Botany - Wheat Phosphates

Jen 50

"Changes in the Potential of Wheat Roots in the Presence of Aluminum and Phosphate Ions," S. N. Aleshin, N. T. Yastrebov, Moscow Agr Acad imeni K. A. Timiryazev, 2 pp.

"Dok Ak Nauk SSSR" Vol LXX, No 3

Authors use apparatus and method they described in previous work to determine potential on roots of living plants. Determined and tabulated changes in magnitude and sign of potential on surface of 5-7 cm wheat rootlets when placed in 0.02 M phosphate buffer solutions of various pH, washed in distilled water, put into 0.001 M solution of aluminum chloride for 10 min, and then replaced in second phosphate solution for 30 min. In first series, sign changed from positive to negative with increased pH, in the second it was positive, and in the third it required higher pH to return to negative. Submitted 25 Nov 49.

PA 15812

CH (AS PER COPIES, 11-1)

11D

Variation of the charge on wheat root in presence of aluminum and phosphate ions. S. N. Alechin and M. T. Yastrebov (K. A. Timiryazev Agr. Acad., Moscow). Doklady Akad. Nauk S.S.R. 70, 823-4 (1930).—Use of a previous technique (C.A. 44, 2187g) on young wheat roots gave the following potentials in 0.02 M phosphate buffer: 0 mv. (?) at pH 4.1; 6 at pH 4.4; 4 at pH 5.4; -2 at pH 6.3; -8 at pH 7.2; -4 at pH 8.0; In 0.001 M AlCl_3 : —, —, 0, 8, 0, resp.; replacement into the phosphate buffer after 10 min. in AlCl_3 soln. gave: —, —, 0, 2, -6. Results are explained by adsorption of potential detg. ions (phosphate), which with Al ions are capable of forming poorly ionized compds.

G. M. Kosolapoff

YASTREBOV, M. T.

Agronomy

Dissertation: "Effect of Methods of Introducing Fertilizers on the Vital Activity of Root Systems and the Yield of Spring Wheat." Cand Biol Sci, Inst of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR, 24 Mar 54. (Vechernaya Moskva, Moscow, 15 Mar 54)

SO: SUM 213, 20 Sept 1954

YASTREBOV, M.T.

Modified capillary method for determining the osmotic pressure of liquids and its utilization in biology. Trudy Inst.fiziol.rast. 8 no.2:404-411 '54. (MIRA 8:5)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva Akademii nauk SSSR.
(Osmosis)

USSR/Cultivated Plants - Grains.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44033

Author : Yastrebov, M.T.

Inst : Institute of Agriculture of the Central Chernozem Belt
Imeni V.V. Dokuchayev.

Title : The Effect of the Methods of Applying Fertilizers on the
Activity of the Roots and the Spring Wheat Yields.

Orig Pub : Fiziol. rasteniy, 1956, 3, No 3, 233-242

Abstract : Experiments conducted on the common chernozems of the
Kamennoyaya steppe (the V.V. Dokuchayev Institute of Agri-
culture of the Central Chernozem Belt) showed that the
widespread application of mineral fertilizers under the
spring wheat before fall plowing does not insure the ma-
ximum effectiveness of the fertilizers. Better results
are obtained by introducing $\text{NH}_4\text{P}_3\text{O}_3\text{K}_3\text{O}$ under the plowed

Card 1/2

Plant Physiology in K.A. Timiryazev,

- 20 -

AS USSR

Yastrebov, M.T.

USSR/Soil Science. Physical and Chemical Properties of Soils I-2

Abs Jour: Referat.Zh.Biol., No. 16, 25 Aug, 1957, 68995

Author : Yastrebov, M.T.

Inst :

Title : I. A needle for Sampling of Soil Air. II. The Content
of CO₂, O₂ and H₂ in Soil Air and in the Subsoil Waters
of the Klyazma River Bottomland.

Orig Pub: Pochvovedenie, 1956, No. 4, 80-96

Abstract: A newly constructed needle for sampling soil air is described in which the usual soil plastering of openings, as well as the suction of atmospheric air on the surface of the needle, is avoided; the needle may also serve in rapid determination of the border of capillary edges. Investigations of soil air composition, taken by this needle on different soils, were conducted. In turf-podzolic, in meadow, in turf, silty-marshy, in peaty-clayey soils an increase of CO₂ content in soil air was accompanied by a decrease

Card 1/2

- 7 -

USSR/Soil Science. Physical and Chemical Properties of Soils I-2

Abs Jour: Referat.Zh.Biol., No. 16, 25 Aug, 1957, 68995

Abstract: of O₂ content; the change in relationship of these gases in the soil was accompanied by a parallel change in relationship (CO₂:H₂S):O₂ in soil-ground waters of soils examined. This work was conducted in Moscow University.

Card 2/2

- 8 -

YASTREBOV, M. T.
USSR/ Biology - Plant physiology

Card 1/1 Pub. 22 - 39/43

Authors : Yastrebov, M. T.

Title : Respiration of roots, sprouts and leaves of summer wheat in connection with feeding conditions

Periodical : Dok. AN SSSR 106/1, 148-151, Jan 1, 1956

Abstract : Biological data are presented on the breathing intensity of roots, sprouts and leaves of summer wheat in connection with the fertilization and irrigation conditions. Thirteen references: 11 Russ. and USSR and 2 Germ. (1877-1955). Tables.

Institution : Acad. of Sc., USSR, Inst. of Plant Physiology im. K. A. Timiryazev

Presented by: Academician A. L. Kursanov, October 25, 1955

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82522

Author : Yastrebov, M.T.

Inst : Moscow University - Chair of Plant Physiology

Title : Influence of the Active Soil Acidity on the Utilization
of Different Forms of Nitrogen Fertilizers and on the
Saccharinity of the Fruit of Strawberry Plants.

Orig Pub : Vestn. Mosk. un-ta Ser. biol. pochvoved., geol., geogr.,
1957, No 1, 153-158

12

Abstract : Observations were carried out at the Moscow Academy of
Agriculture and at the Department of Physiology of Moscow
State University. Measurements of the electrical charge
in young rootlets of one-year old runners of Mysovka va-
riety of strawberry were conducted in phosphate buffer
mixture with pH 4.1; 5.3 and 7.3 on an ordinary

Card 1/3

- 137 -

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., N 18, 1958, 82522

compensating potentiometer with a mirror galvanometer with a sensitivity of 10^{-8} a. After a thorough washing, the rootlets being studied were cut off and used without delay for the measurement of the electric charge. Potential was determined in the course of 4-5 minutes. The action of the active soil acidity (of hydrogen ions) on plant roots leads to the formation of an electrical charge in the protein which determines to a considerable degree the initial stage of the absorption of the anion or cation forms of nutrient elements. With the reaction of the medium of pH 5.3 and especially of pH 4.1 a considerable lowering of the magnitude of the negative charge of strawberry root surface to -5.9 millivolts takes place which promotes a better absorption of N in anion form (of the nitrate anion); with the reaction of a medium of pH 7.3, the negative charge of the strawberry root surface increased to 15.3 millivolts contributing to the

Card 2/3

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82522

predominating absorption of N in the form of cation (an ammonium cation). Better absorption of nitrate N with a mildly acid reaction of the medium (pH 5.5) promoted the synthesis of proteins and carbons in the plants. As the result, the sugar content in ripe fruit comprised about 80% against 60% with ammonium N. Under the conditions of a mildly alkaline reaction of the medium (pH 7.3-7.5) the sugar content proved to be higher with the ammonium feeding - 62.6% against 50.4% with the nitrate feeding. On strongly acid soil (pH 4.3) application of humus secured the greatest sugar content in the fruit. The aggregate level of sugar in fruit increased to the degree of the increase in soil acidity. -- Ye.V. Kolesnikov

Card 3/3

- 138 -

YASTREBOV, M.T.

Effect of the method of fertilizer placement on protein and carbohydrate metabolism in spring wheat. Vest. Mosk.un.Ser.biol., pochv.,
geol., no. 13:63-71 '58. (MIRA 12:1)

1. Kafedra pochvovedeniya Moskovskogo gos. universiteta.
(Wheat--Fertilizers and manures) (Protein metabolism)
(Carbohydrate metabolism)

AUTHOR:

Yastrebov, M. T.

20-119-3-55/65

TITLE:

Natural Radioactivity of Zonal Soils of the European Part of the USSR (Yestestvennaya radioaktivnost' zonal'nykh pochv Yevropeyskoy chasti SSSR)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3,
pp. 586-589 (USSR)

ABSTRACT:

Scientists succeeded in finding a direct correlative interdependence between the values of natural radioactivity of the soils (nRS) and their fertility (References 1,2,10,11,13). The possible favorable influence of the weak radiations of natural radioactivity (within the optimum range) on biochemical and chemical reactions of the plants and microorganisms in the soil were underestimated. This happened because this radioactivity was regarded only as a certain heat effect which compared to the radiation of the sun is only very small. However, the effect of radiation has a specific qualitative character which becomes mainly apparent in the atomic and molecular ionization. This probably leads to the increase of the reaction power

Card 1/4

Natural Radioactivity of Zonal Soils of the
European Part of the USSR

20-119-3-55/65

of the latter with respect to biochemical and chemical reactions (References 12, 15). This does not mean that already today it may be recommended to introduce radioactive materials into the ground (References 4,7) since years of precise investigations are still necessary for this. (References 3,9,14). Most of the scientists up to now have been of opinion that the nRS is exclusively due to the presence of the radioactive elements: Tb, U, Ra, K⁴⁰, C¹⁴ and others. According to new discoveries however, it must be assumed that the nRS also depends to a certain degree on the action of cosmic factors (References 5,6,16). In the present paper results of determinations of the total nRS at characteristic points of natural zones along the meridian from Moscow to the southern coast of the Crimea are mentioned. According to data on table 1 the total nRS increases toward the direction mentioned last. This is in direct correlative interdependence between the amount of the total radiation due to the content of Th, U, Ra, K⁴⁰ and C¹⁴ in the soils on this meridian:

Card 2/4

Natural Radioactivity of Zonal Soils of the
European Part of the USSR

20-119-3-55/65

a) meadow podsol, b) meadow - steppe - soil heavy black earth, c) normal black earth, d) brown forest soil of the semi-dry subtropics of the Crimea (References 1,2). Moreover, a dependence on the sun radiation increasing toward the south is given (Reference 8). Thus, the mentioned soils could be provisionally placed in the mentioned order according to the increasing total nRS. A most important fact was discovered: In all moderately moist soil samples which evaporated water during the determination the total nRS was much higher than in samples with dry air (Table 2). From this fact the author concludes that in the phenomenon of the nRS a great rôle is attributed to water and a certain role also to cosmic factors.

There are 2 tables and 16 references, 15 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)
Card 3/4

Natural Radioactivity of Zonal Soils of the
European Part of the USSR

20-119-3-55/65

PRESENTED: December 9, 1957, by I. V. Tyurin, Member of Academy
of Sciences USSR

SUBMITTED: August 1, 1957

AVAILABLE: Library of Congress

Card 4/4

AUTHOR:

Yastrebov, M. T.

20-119-4-46/60

TITLE:

Determination of Radioactivity of Soil- and Atmosphere Air Marked With $C^{14}O_2$, in Order to Control the Purity of Soil Air Samples (Opredeleniye radioaktivnosti pochvennogo i atmosfernogo vozdukha, mechenogo $C^{14}O_2$, dlya kontrolya chistoty prob pochvennogo vozdukha)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr. 4,
pp. 792-795 (USSR)

ABSTRACT:

It is known that the plant photosynthesis, the decomposition of the organic radical by microorganisms, and the synthesis of the humic substances in the soil are closely connected with the composition and the supply of the soil air. Much more attention is to be paid to the soil air beside the solid and liquid phase of the soil than has hitherto been done (references 1, 2). The determination of the air composition according to single genetic soil horizons demanded the application of probes and needles of different construction (references 3 - 7).

Card 1/3

Determination of Radioactivity of Soil- and Atmosphere 20-119-4-46/60
Air Marked With $C^{14}O_2$, in Order to Control the Purity
of Soil Air Samples

The needle suggested by the author is simple and makes possible the taking of samples of soil air from a depth of 15 - 20 cm on without atmospheric air. In consequence of critical remarks of several researchers (references 5, 8, 9) concerning the soil probes, the author tested the reliability of his needle(reference 7) by use of $C^{14}O_2$. Table 1 gives the properties of the single soils. The taking of the air was carried out under a glass bell filled with $C^{14}O_2$. The measuring results of the radioactivity are compiled in table 2. They show that the radioactivity of the soil air from a soil above, which there was pure air, did not differ from that of soil air from a soil which for about two minutes was covered by a glass bell filled with radioactive $C^{14}O_2$. The radioactivity of the marked air exceeded here that of the soil air by the 21 - 43 fold. By this the application of the needle suggested by the author proved to be reliable, since the soil air did not contain atmospheric air, even if it was taken from a low depth

Card 2/3

Determination of Radioactivity of Soil- and Atmosphere 20-119-4-46/60
Air Marked With C¹⁴O₂, in Order to Control the Purity
of Soil Air Samples

(20 cm). Finally the radioactivity for the single soil types per 1 m³ is calculated. Corresponding Member, Academy of Sciences, USSR, V. A. Kovda took part in the works. There are 2 figures, 2 tables, and 11 references, 10 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
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USSR
SUBMITTED: June 12, 1957

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A.M., prepodavatel'; YASTREBOV, N.A., dots.; SHASHKOVSKIY,
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Subject : USSR/Mining
Card 1/1 Pub. 78 - 11/21
Authors : Akopov, A. A. and Yastrebov, P. I.
Title : To simplify standard high-pressure well-control equipment
Periodical : Neft. khoz., 33, 5, 48, My 1955
Abstract : The authors propose a simplified design of high-pressure well-control equipment and present a diagram of the suggested valve lay-out.
Institution : None
Submitted : No date

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imeni V. I. Ul'yanova (Lenina) (for Dero),
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YAS FRE BOV P

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retsenzent; GLEBOV, I.A., dotsent, retsenzent; YASTREBOV, P.P.,
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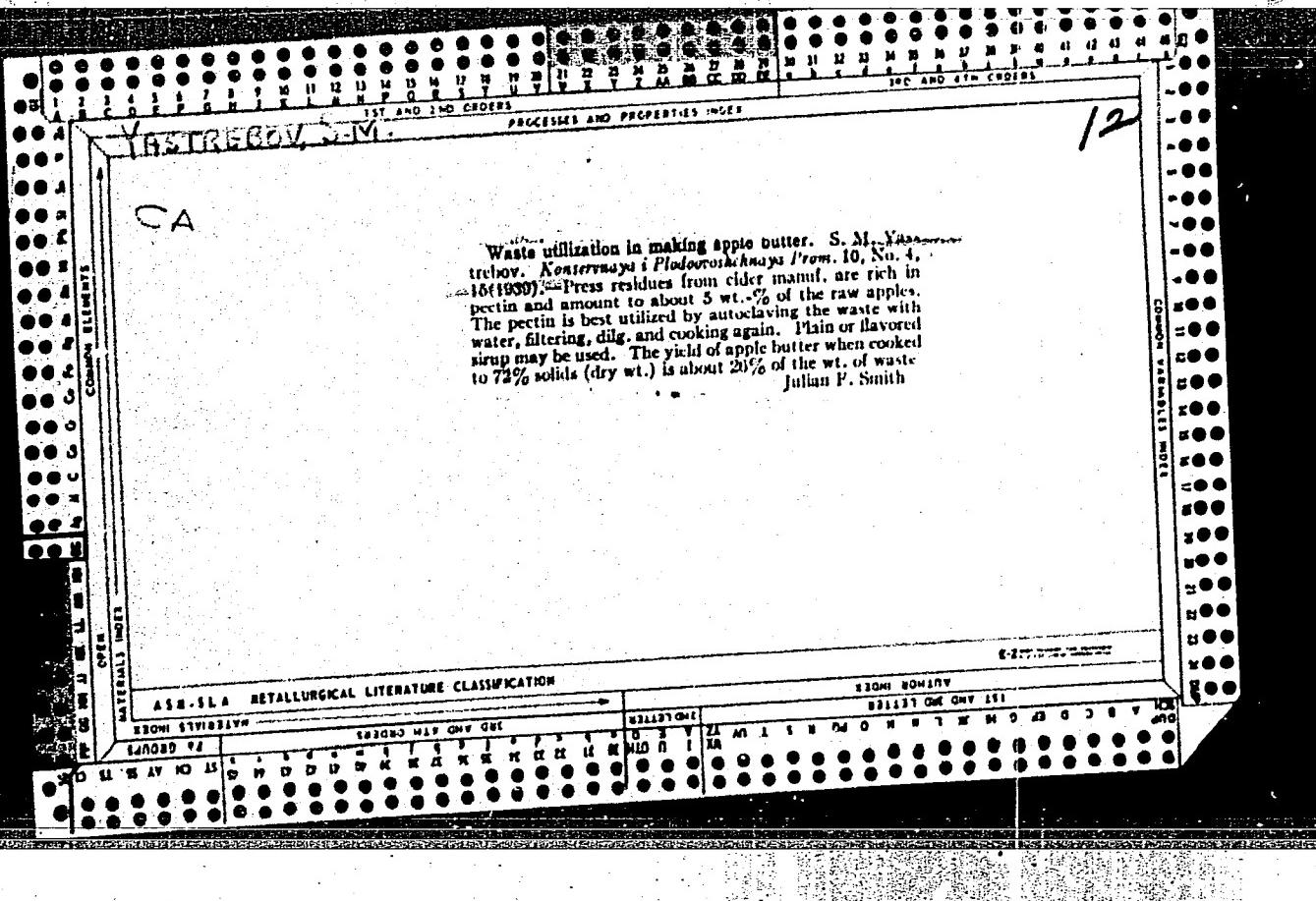
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